

SEQUENCE LISTING



#12

<110> Reinl, Stephen  
Lindbo, John  
Turpen, Thomas

<120> CREATION OF VARIABLE LENGTH AND SEQUENCE LINKER REGIONS  
FOR DUAL-DOMAIN OR MULTI-DOMAIN MOLECULES

<130> 42205

<140> 09/667,237

<141> 2000-09-22

<150> US 60/155,978

<151> 1999-09-24

<160> 51

<170> PatentIn Ver. 2.1

<210> 1

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Glycine rich  
linker

<400> 1

Pro Gly Ile Ser Gly Gly Gly Gly Gly  
1 5

<210> 2

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Asparagine  
rich linker

<400> 2

Asn Asn Asn Asn Asn Asn Asn Asn Asn Asn Leu Gly Ile Glu Gly Arg  
1 5 10 15

<210> 3

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: (Gly4-Ser)3

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<400> 3  
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
1 5 10 15

<210> 4  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: VH domain  
forward primer

<400> 4  
gtggcatgca ggttcaactg gtggagtctg 30

<210> 5  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: VH domain  
reverse primer

<220>  
<223> "asy" can appear from 1 to 50 times before the  
remainder of the sequence

<400> 5  
asytgaggag acggtgacca gggttc 26

<210> 6  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: VH domain  
reverse primer, first reaction

<400> 6  
asyasyasya syasyasytg aggagacggt gaccagggtt c 41

<210> 7  
<211> 50  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: VH domain  
reverse primer, second reaction

<400> 7  
 asyasyasya syasyasyas yasyasytga ggagacggtg accagggttc 50

<210> 8  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: VL domain  
 forward primer

<220>  
 <223> "rst" can appear from 1 to 50 times before the  
 remainder of the sequence

<400> 8  
 rstgacattc agatgaccca gtctccttc 29

<210> 9  
 <211> 39  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: VL domain  
 reverse primer

<400> 9  
 caccctaggc tatcgtttga tcagtacctt ggtcccctg 39

<210> 10  
 <211> 44  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: VL domain  
 forward primer, third reaction

<400> 10  
 rstrstrstr strstrstga cattcagatg acccagtctc cttc 44

<210> 11  
 <211> 53  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: VL domain  
 forward primer, fourth reaction

<400> 11

rstrstrstr strstrstrs trstrstgac attcagatga cccagtctcc ttc 53

<210> 12  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 12  
actactgcta ctggtgctag tactactgct ggtgctagt 39

<210> 13  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 13  
Thr Thr Ala Thr Gly Ala Ser Thr Thr Ala Gly Ala Ser  
1 5 10

<210> 14  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 14  
gctactgctg ctagtggtgc tgctgctggt ggtggtact 39

<210> 15  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 15  
Ala Thr Ala Ala Ser Gly Ala Ala Ala Gly Gly Gly Thr  
1 5 10

<210> 16  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 16  
gctactggtg ctagtactag tgctactgct ggtggtagt

39

<210> 17  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 17  
Ala Thr Gly Ala Ser Thr Ser Ala Thr Ala Gly Gly Ser  
1 5 10

<210> 18  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 18  
agtactgctg ctggtactag tagtggtagt agtactggt

39

<210> 19  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 19  
Ser Thr Ala Ala Gly Thr Ser Ser Gly Ser Ser Thr Gly  
1 5 10

<210> 20  
<211> 51  
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 20

gctagtactg ctactagtag tgggtggtggt ggtactggta gtagtgctgc t

51

<210> 21

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 21

Ala	Ser	Thr	Ala	Thr	Ser	Ser	Gly	Gly	Gly	Thr	Gly	Ser	Ser	Ala	Ala
1				5				10						15	

Ala

<210> 22

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 22

gctactagta ctgctgctgc tgggtgctact agtgctactg gtggtgctag tgggtactggt 60

<210> 23

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 23

Ala	Thr	Ser	Thr	Ala	Ala	Ala	Gly	Ala	Thr	Ser	Ala	Thr	Gly	Gly	Ala
1				5				10						15	

Ser Gly Thr Gly  
20

<210> 24  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 24  
actggtgcta gtggtgctac tagtagtggt agtagtagt

39

<210> 25  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 25  
Thr Gly Ala Ser Gly Ala Thr Ser Ser Gly Ser Ser Ser  
1 5 10

<210> 26  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: VH domain  
forward primer

<400> 26  
cctgcatgct ggaggtgcag ttggtggaat c

31

<210> 27  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: VH domain  
reverse primer

<220>  
<223> "asy" can appear from 1 to 50 times before the  
remainder of the sequence

<400> 27  
asyagaggag acggtgacca tga

23

<210> 28  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: VH domain  
         reverse primer, first reaction  
  
 <400> 28  
 asyasyasya syagaggaga cggtagcat ga 32  
  
 <210> 29  
 <211> 47  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: VH domain  
         reverse primer, second reaction  
  
 <400> 29  
 asyasyasya syasyasyas yasyasyaga ggagacggtag accatga 47  
  
 <210> 30  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: VL domain  
         forward primer  
  
 <220>  
 <223> "rst" can appear from 1 to 50 times before the  
         remainder of the sequence  
  
 <400> 30  
 rstcagtctg ccctgactca gt 22  
  
 <210> 31  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: VL domain  
         reverse primer  
  
 <400> 31  
 caccctaggt caaccaagga cggtagggtt ggtag 34  
  
 <210> 32



<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: VL domain  
forward primer, first reaction

<400> 32  
rstrstrstr strstrstca gtctgccctg actcagt

37

<210> 33  
<211> 46  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: VL domain  
forward primer, second reaction

<400> 33  
rstrstrstr strstrstrs trstrstcag tctgccctga ctcagt

46

<210> 34  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 34  
ggtgctggtg gtggt

15

<210> 35  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 35  
Gly Ala Gly Gly Gly  
1 5

<210> 36  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 36  
actggtggtg gtggtggtag tgggtggtggt

30

<210> 37  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 37  
Thr Gly Gly Gly Gly Gly Ser Gly Gly Gly  
1 5 10

<210> 38  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 38  
actactacta ctgctactac tgctggtagt ggtgct

36

<210> 39  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 39  
Thr Thr Thr Thr Ala Thr Thr Ala Gly Ser Gly Ala  
1 5 10

<210> 40  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 40  
gctactactg gtgct

15

<210> 41  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 41  
Ala Ser Thr Gly Ala  
1 5

<210> 42  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 42  
agtactggta gtagtggtgc tggc

24

<210> 43  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 43  
Ser Thr Gly Ser Ser Gly Ala Gly  
1 5

<210> 44  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 44  
gctagtagtg gtgctagtc t

21

<210> 45  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 45  
Ala Ser Ser Gly Ala Ser Ala  
1 5

<210> 46  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 46  
gctagtgggtg gtactgctgg tactgggtggt agtagtact

39

<210> 47  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 47  
Ala Ser Gly Gly Thr Ala Gly Thr Gly Gly Ser Ser Thr  
1 5 10

<210> 48  
<211> 51  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
nucleotide sequence

<400> 48  
actagtggta gtgggtgctag tgctgctgct ggtgggtgctg ctgctagtgc t

51

<210> 49

<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Linker region  
amino acid sequence

<400> 49  
Thr Ser Gly Ser Gly Ala Ser Ala Ala Ala Gly Gly Ala Ala Ala Ser  
1 5 10 15

Ala

<210> 50  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Duplex with  
bubble, upper sequence

<400> 50  
rstrstrstr strstrstca tgcc

24

<210> 51  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Duplex with  
bubble, lower sequence

<400> 51  
ggcatgasya syasyasyas yasy

24